

AMENDMENTS TO THE CLAIMS

22. (Previously Presented) An isolated and purified nucleic acid hybridizable to the polynucleotide of SEQ ID NO. 1 under stringent conditions.

23. (Previously Presented) The isolated and purified nucleic acid of claim 22, wherein said stringent conditions are 1XSSC and 65°C.

PENDING CLAIMS

As of 1-10-01, claims 5, 22-30, and 33-36 are pending.

5. An isolated and purified polynucleotide comprising a sequence which encodes the amino acid sequence of SEQ ID NO: 2 or a fragment thereof; said fragment encoding a peptide antigen having the property of eliciting antibodies that recognize a *P. vivax* PvESP-1 protein, said peptide antigen not being present in other *Plasmodium* species that cause malaria in humans.
22. The isolated and purified polynucleotide fully complementary to the polynucleotide of claim 5.
23. The isolated and purified polynucleotide of claim 5, wherein said fragment encodes a peptide antigen having at least 8 amino acids.
24. The isolated and purified polynucleotide of claim 23 wherein said peptide antigen binds the 1D11.G10 monoclonal antibody.
25. An isolated and purified polynucleotide comprising a nucleotide sequence of SEQ ID NO: 1 or a fragment thereof; said fragment encoding a peptide antigen having the property of eliciting antibodies that recognize a *P. vivax* PvESP-1 protein; said peptide antigen not being present in other *Plasmodium* species that cause malaria in humans.
26. The isolated and purified polynucleotide fully complementary to the polynucleotide of claim 25.
27. The isolated and purified polynucleotide of claim 25 comprising a nucleotide sequence of SEQ ID NO: 1.
28. The isolated and purified polynucleotide fully complementary to the polynucleotide of claim 27.
29. The isolated and purified polynucleotide of claim 25 wherein said fragment is at least 24 nucleotides long.
30. The isolated and purified polynucleotide of claim 29 wherein said polynucleotide encodes a protein fragment which elicits the 1D11.G10 monoclonal antibody.
33. A vector comprising a polynucleotide of claim 5.

34. A vector comprising a polynucleotide of claim 25.
35. An isolated and purified polynucleotide of claim 5 produced by a process comprising identifying a polynucleotide that encodes a protein or fragment thereof wherein the protein or fragment binds to a monoclonal antibody specific for PvESP-1 or PvESP-2.
36. An isolated and purified polynucleotide of claim 25 produced by a process comprising identifying a polynucleotide that encodes a protein or fragment thereof wherein the protein or fragment binds to a monoclonal antibody specific for PvESP-1 or PvESP-2.